Date: Thu, 15 Apr 93 19:01:44 PDT
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #103
To: packet-radio

Packet-Radio Digest Thu, 15 Apr 93 Volume 93 : Issue 103

Today's Topics:

2400 moden needed
44th Armed Forces Day Comm Test
Amiga CBBS V7.20e available.
Baycom <=> laptop CTS problems
BayCom and MS-Windows?
Baycom and NOS help needed
BayCom and Windows3.1?
Cable TVI interference (3 msgs)
Help! KA9Q/Ethernet
Poor Man's Packet Design/Article wanted (2 msgs)
Time for AX25 version 3 ?

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 15 Apr 93 17:53:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: 2400 moden needed
To: packet-radio@ucsd.edu

I would like to hook up a 2400 baud modem to my PK-88. Does anyone know of a good modem I can use?

Tom Fleming
N9SZF

Date: 16 Apr 93 01:14:03 GMT
From: news-mail-gateway@ucsd.edu
Subject: 44th Armed Forces Day Comm Test
To: packet-radio@ucsd.edu

The following was provided by the Office of the CHIEF NAVMARCORMARS.

QUOTE:

44th ANNIVERSARY OF THE ANNUAL ARMED FORCES DAY COMMUNICATIONS CELEBRATION

Ref: DoD Directive 4650.2 of 17 Jan 86

1. Purpose. To announce the 44th Annual Armed Forces Day Communications Celebration scheduled for Saturday, 15 May 1993.

2. General. The Army, Navy, Marine Corps and Air Force are co-sponsoring an Amateur Radio Program in celebration of Armed Forces Day per reference (a), featuring the traditional military-to-amateur cross band communications test and message receiving test. The tests give amateur radio operators and short wave listeners an opportunity to demonstrate their individual technical skill and to receive recognition from the Secretary of Defense or the appropriate military radio station for their proven expertise.

a. The proceeding will include operations in continuous wave (CW), single sideband voice (SSB) and radioteletype (RTTY).

b. Participating military radio stations will award commemorative acknowledgement (QSL) cards to amateur radio operators achieving a verified two-way radio contact. Special commemorative certificates will be awarded to anyone who receives and accurately copies the Armed Forces Day CW and/or RTTY message from the Secretary of Defense. All contacts must be acknowledged by QSL card or certificate to validate military interest in these operators.

3. Military-to-Amateur Cross Band Test. Military-to-amateur cross band operations will take place from 15/1300Z (UTC Universal Time) to 16/0200Z (UTC) May 1993. Military stations will transmit on selected military frequencies and listen for amateur radio stations in the amateur bands indicated below. Frequencies assigned below are the "Assigned Frequency". To derive the "Window Frequency" drop 1.5KHZ from the "Assigned Frequency" for USB.

```
ex:  4005.0 Khz (Assigned Frequency)
     -  1.5 Khz
     ----------
     4003.5 Khz (Window/Dial Frequency)
```

The military operator will announce the specific amateur band frequency being monitored. Duration of each contact should be limited to three minutes.

STATION	MILITARY FREQUENCY	EMISSION	AMATEUR BAND
AAE	4030.5 Khz	LSB	80 Meters
ARMY HF/MARS Radio Facility	7358.5 Khz	RTTY/LSB	40 Meters
Fort Sam Houston, TX 78234	13994.5 Khz	USB	20 Meters
	20941.5 Khz	CW	15 Meters
POC Mr. Leon Ritter	27992.5 Khz	USB	10 Meters
A/V: 471-3840/5061			
Com: (512) 221-3840/5061			
AAH	4021.5 Khz	LSB	80 Meters
ARMY HF/MARS Radio Facility	6988.0 Khz	RTTY/CW	40 Meters
Fort Lewis, WA 98433	10151.5 Khz	USB/CW	30 meters
	14488.5 Khz	USB	20 Meters
POC: Mr. Chuck Veron	20975.0 Khz	USB	15 Meters
A/V: 357-2502/3575	20995.5 Khz	RTTY/CW	15 Meters
Com: (206) 967-2502/3575	27820.0 Khz	USB	10 Meters
AAR	4033.5 Khz	LSB	80 Meters
Army HF MARS Radio Facility	7309.5 Khz	RTTY/CW	40 Meters
FT Bragg, N.C. 28307	14440.0 Khz	USB	20 Meters
	20105.0 Khz	USB	15 Meters
POC: SGT Hill	27810.0 Khz	USB	10 Meters
A/V: 236-6711/3108			
Com: (919) 396-6711/3108			
AIR	4025.0 Khz	LSB	80 Meters
89th Communications Group	6995.0 Khz	CW	40 Meters
Andrews Air Force Base	7315.0 Khz	LSB	40 Meters
Washington, DC 20331	13986.5 Khz	RTTY	20 Meters
	13997.5 Khz	CW	20 Meters
POC: TSGT Damiani	14408.0 Khz	USB	20 Meters
A/V: 858-6277			
Com: (301) 981-6277			
NAM	4005.0 Khz	RTTY/CW/USB	80 Meters
Naval Communications	7393.0 Khz	RTTY/CW/USB	40 Meters

Detachment
Norfolk, VA 23511-6898

POC: RMCS Buck
A/V: 564-4115/3112
Com: (804) 444-4115/3112

NAV 7365.0 Khz RTTY/CW/USB 40 Meters
HQ Navy-Marine Corps MARS 10259.5 Khz RTTY/CW/USB 30 Meters
BLDG 13, NAVCOMMDET Cheltenham
Washington, DC 20397-5161

POC: RM1 Thornsberry
A/V: 251-2266
Com: (301) 238-2266

NAV-8 4008.5 Khz Various 80 Meters
DIRNAVMARCORMARS REG EIGHT 14820.0 Khz Various 20 Meters

NMH 4010.5 Khz RTTY/CW/USB 80 Meters
MARS Operator 7346.5 Khz RTTY/CW/USB 40 Meters
U.S. Coast Guard Information
System Center
Alexandria, VA 22310-3999

POC: RM1 Skahill
Com: (703) 644-3768 (Office)
(703) 644-3698 (MARS Shack)

NMN 7393.0 kHZ RTTY/CW 40 Meters
Commanding Officer
U.S. Coast Guard CAMSLANT-NMN
NAVSECGRUACT N.W.
Chesapeake, VA 23322

POC: RMCM Wren/RM1 Bankston
Com: (804) 421-6231/6240/6247

NPL	7382.5 Khz	RTTY/CW/USB	40 Meters
DIRNAVMARCORMARS REG FIVE	14385.0 Khz	RTTY/CW/USB	20 Meters
Naval Computer and	20625.0 Khz	RTTY/CW/USB	15 Meters
Telecommunications Station			
937 North Harbor Drive			
San Diego, CA 92132-5100			

POC: RMC Betts
A/V: 522-1491
Com: (619) 532-1491

NZJ	7375.0 Khz	RTTY/CW/USB	40 Meters
MARS Radio Station	14480.0 Khz	RTTY/CW/USB	20 Meters
Station Operations and	24805.0 Khz	RTTY/CW/USB	12 Meters
Maintenance Squadron			
Marine Corps Air Station			
El Toro, CA 92709-5020			

POC: SSGT Carpenter
A/V: 997-2367
Com: (714) 552-2367/3031/3111

WAR	4018.5 Khz	LSB	80 Meters
HQ Army MARS Radio Station	6998.5 Khz	CW	40 meters
Fort Detrick, MD 21702	13992.5 Khz	RTTY/CW	20 Meters
	14403.5 Khz	USB	20 Meters
POC	20995.5 Khz	USB	15 Meters

POC: Mr. Vargas
A/V: 343-2594

---

4. CW Transmitting. The CW receiving test will be conducted at 25 words per minute. The broadcast will be a special Armed Forces Day Message from the Secretary of Defense to any amateur radio operator or short wave listener desiring to participate. A 10-minute call for tuning purposes will begin at 16/0230Z (UTC) May 1993. The Secretary's message will be transmitted at 16/0240Z (UTC) May 1993 from the following stations on the listed frequencies:

TRANSMITTING STATION	FREQUENCY (Khz)
AAE	7358.5, 20941.5
ARMY HF/MARS Radio Facility	

Fort Sam Houston, TX	
AAH ARMY HF/MARS Radio Facility Fort Lewis, WA	6988.0, 10151.5, 20995.5
AAR ARMY HF/MARS Radio Facility Fort Bragg, NC	7309.5
AIR 89th Communications Group Andrews Air Force Base Washington, DC	6995.5, 13997.5
NAM Naval Computer Telecommunications Area Master Station LANT Norfolk, VA	4005.0, 7393
NAV HQ Navy-marine Corps MARS Radio Station Cheltenham, MD	7365.0, 10259.5
NAV-8 DIR NAVMARCORMARS REG EIGHT Honolulu, HI	4008.5, 14820.0
NMH Coast Guard Radio Station Alexandria, VA	4015.0, 7346.5
NMN Coast Guard Communication Area Master Station Chesapeake, VA	7393.0
WAR HQ Army MARS Radio Station Fort Detrick, MD	6998.5, 13992.5

5. Radioteletypewriter Transmitting Test. Two radioteletypewriter receiving tests will be transmitted. The first will be 60 words per minute using 170 hertz (narrow) shift. A 10-minute call for tuning purposes will beginning at 16/0300Z (UTC) May 1993. The Secretary's message will be transmitted at 16/0310Z (UTC) May 1993, and the second will be at 100 words per minute using 170 hertz (narrow)

shift. A 10-minute call for tuning purposes will begin at 16/0330z (UTC) May 1993. The Secretary's message will be transmitted at 16/0340Z (UTC) May 1993 from the following stations on the listed frequencies:

TRANSMITTING STATION	FREQUENCY (Khz)
AAE ARMY HF/MARS Radio Facility Fort Sam Houston, TX	7358.5
AAH ARMY HF/MARS Radio Facility Fort Lewis, WA	6988.0, 20995.5
AAR ARMY HF/MARS Radio Facility Fort Bragg, NC	7309.5
AIR 89th Communications Group Andrews Air Force Base Washington, DC	13986.5
NAM Naval Computer Telecommunications Area Master Station LANT Norfolk, VA	4005.0, 7393
NAV HQ Navy-marine Corps MARS Radio Station Cheltenham, MD	7365.0, 10259.5
NAV-8 DIR NAVMARCORMARS REG EIGHT Honolulu, HI	4008.5, 14820.0
NMH Coast Guard Radio Station Alexandria, VA	4015.0, 7346.5
NMN Coast Guard Communication Area Master Station Chesapeake, VA	7393.0
NPL	7382.5, 14385.0, 20625.0

DIR NAVMARCORMARS REG FIVE
San Diego, CA

NZJ 7375.0, 14480.0, 24805.0
Marine Corps Air Station
El Toro, CA

WAR 13992.5
HQ Army MARS Radio Station
Fort Detrick, MD

6. Submission of Test Entries. Transcriptions of the CW and/or RTTY receiving tests should be submitted "as received". No attempt should be made to correct possible transmission errors. The time, frequency and call sign of the military station copied as well as the name, call sign, and address (including Zip Code) of the individual submitting the entry must be indicated on the page containing the test message. Each year, a large number of acceptable entries are received with insufficient information or the necessary information was attached to the transcription and was separated, thereby precluding the issuance of a certificate. Entries must be postmarked no later than 25 May 1993 and submitted to the respective military commands as follows:

a. Stations copying AIR send entries to:

Armed Forces Day Celebration
89 CG/DOJB, Andrews AFB
Washington, D.C. 20331-3645

b. Stations copying NAM, NAV, NMM, NMN, NPL, NZJ and NAV-8 send entries to:

Armed Forces Day Celebration
HQ Navy-Marine Corps MARS
Bldg-13 NAVCOMDET Cheltenham
Washington, D.C. 20397-5161

c. Stations copying AAE, AAH, AAR or WAR send entries to:

Armed Forces Day Celebration
Department of the Army
U.S. Army Information Systems Command
ATTN: ASOP-HF
Fort Huachuca, AZ 85613-5000

-------->> UNQUOTE..

Date: Thu, 15 Apr 1993 17:07:53 GMT
From: ddsw1!chinet!randy@uunet.uu.net
Subject: Amiga CBBS V7.20e available.
To: packet-radio@ucsd.edu

In article <1qg1og$kl0@access.usask.ca> hardie@herald.usask.ca (Peter Hardie) writes:

>
>My port of V7.20 of the IBM CBBS to the Amiga is available for anonymous
>ftp on ftp.usask.ca in pub/amiga/hamradio/cbbs-720e.lzh

Uh, what is this "IBM CBBS"? CBBS is a trademark by Ward Christensen and Randy Suess (me) for the first bulletin board system, Computerized Bulletin Board System from 1978.

--

I am created Shiva the Destroyer; Death, the shatterer of worlds!
Who is this dog meat who stands before me now?
That's the biz, sweetheart.

Randy Suess   randy@chinet.chinet.com

Date: Thu, 15 Apr 1993 13:21:18 GMT
From: usc!zaphod.mps.ohio-state.edu!sol.ctr.columbia.edu!news.cs.columbia.edu!amb@network.UCSD.EDU
Subject: Baycom <=> laptop CTS problems
To: packet-radio@ucsd.edu

I have an old Zenith laptop that I'd like to use with my Baycom modem. Currently, though, the laptop isn't seeing the incoming data on CTS correctly (pin 5 on a DB25), although it sends just fine. Any suggestions on what the laptop might want to be seeing, if not the +5v/0v that is nominally present?

andrew

Date: 15 Apr 93 12:55:40 GMT
From: news-mail-gateway@ucsd.edu
Subject: BayCom and MS-Windows?
To: packet-radio@ucsd.edu

Is anyone running BayCom from MS-Windows?
I can not get BayCom 1.5a to run from Windows 3.1. Running L2 and SCC from

within Windows does not work, and loading L2 before starting Windows does not work. The SCC terminal part works, but does not seen to see the BayPac-1 modem.

Date: 15 Apr 93 14:21:03 MDT
From: dog.ee.lbl.gov!hellgate.utah.edu!cc.usu.edu!sltmw@network.UCSD.EDU
Subject: Baycom and NOS help needed
To: packet-radio@ucsd.edu

In article <C5Fy5E.83G@watserv1.uwaterloo.ca>, rnelson@watserv1.uwaterloo.ca (Randy Nelson VE3WRN) writes:

> I am trying to help out a friend who is running Baycom and now NOS.
> Baycom works fine but when it comes time to run NOS, the packets
> are not being decoded all the time. Would anyone interested in
> helping me out please drop me a line. We can discuss parameters
> and such. I know it is not the radio or hardware as we thought
> of that first and now discover that baycom can read the packets
> were NOS cannot. We are running WG7J 1.08b NOS.
>
> Thanks and 73
>
> Randy
>

```
> --
> Randy Nelson VE3WRN  Ontario Representative      rnelson@watserv1.uwaterloo.ca
> 197A Cedarvale Cr.   Disability Information    ..uunet!watmath!watserv1!rnelson
> WATERLOO, ON         Services of Canada.         rnelson@watserv1.waterloo.edu
> N2L 4T3          (519)884-2989 (Voice and TDD)   VE3WRN @ VE3EUK.ON.CAN.NA
```

The first question I would ask is: Are you trying to use the Baycom-style modem to run NOS? NOS needs a KISS TNC, the Baycom modem is not quite KISS. I remember seeing an AX.25 driver for NOS that allows a Baycom-style modem to be used....I believe it is with NOS304.ZIP (The NOS docs), on ucsd.edu

Let me know what happens, I am interested in using a Baycom-style modem for NOS. (I am using a TCM3105, but I have an RS-232 to TTL converter on a single chip!)

```
--
---------------The Ex-Royal Gigolo of the House of Norwedia---------------------
  /                    | "I drank WHAT?"                               -Socrates
  \ uper |)an |-|olmes | "I love the smell of Napalm in the morning" -Big Duke:
  /     'N7NKR'        |                                          Apocalypse Now
--------------------------------------------------------------------------------
I'net: sltmw@cc.usu.edu  sltmw@cache.declab.usu.edu     Bitnet: sltmw@usu.bitnet
--------------------------------------------------------------------------------
ghazexsrcwtdceterfygtgyiy  <---------sorry, just wiping the puke off my keyboard
```

Date: 15 Apr 93 13:28:09 GMT
From: news-mail-gateway@ucsd.edu
Subject: BayCom and Windows3.1?
To: packet-radio@ucsd.edu

Need Help running BayCom from Windows 3.1

I can not get BayCom 1.5a to run under Windows 3.1. I have tried running L2 and SCC from Windows and even loading L2 before starting Windows, but only the SCC terminal software runs and does not see the BayPac-1 modem at Com2.

I have tried various settings for Com2, and the Advanced options under the PIF Editor but still only SCC runs.

If anyone is running BayCom from Windows please let me know what configuration you use to load L2 and SCC and the settings for the Com port. Do you run BayCom from a PIF and use the Advanced options to control Memory and Display?

Thanks in advance for your suggestions.

Ian, N3CVA

Packet Radio: N3CVA@wb3ffv.MD.USA
InterNet   : S72UMIL@toe.towson.edu
BitNet   : S72UMIL@towsonvx.bitnet
....

"...and who knows? Our reality may be very much like theirs, and
all this might just be an elaborate simulation running inside a
little device sitting on someone's table."
          Cpt. Jean-Luc Picard, Ship in a Bottle, Star Trek-TNG.
....

Date: Wed, 14 Apr 93 23:53:43 CDT
From: newsflash.concordia.ca!mizar.cc.umanitoba.ca!bison!sys6626!inqmind!jim@uunet.uu.net
Subject: Cable TVI interference
To: packet-radio@ucsd.edu

prasad@vtaix.cc.vt.edu (Prasad Ramakrishna) writes:

> In article <1qf44aINNll@rave.larc.nasa.gov> watson@nimbus.larc.nasa.gov (Cath
> >I also have a problem with Channel 19 (CNN) - I can often hear people's
> >pagers and there are lines through the picture which come and go
> >with the transmissions. I wrote to the local FCC office and they turned th
> I am not sure if channel 19 is the culprit, 'cos we have CNN on 20 and
> it has the same problem you described. Even when they had old #s (17),
> I noticed that CNN had the same problem. I thought it was prob. due to
> too many people in our area (students) watching news. Only other channel
> I noticed such a thing was on 4. After getting the converter box,
> I just slap that thing once and guess what, the lines are gone, for sometime.
>
> Life must have been so simple during the stone age.....
> Prasad
>

Where did the lines disappear, on ch. 4, or the mid-band (14-22)
channels?

Jim

jim@inqmind.bison.mb.ca
The Inquiring Mind BBS, Winnipeg, Manitoba 204 488-1607

Date: Wed, 14 Apr 93 23:57:06 CDT
From: newsflash.concordia.ca!mizar.cc.umanitoba.ca!bison!sys6626!inqmind!
jim@uunet.uu.net
Subject: Cable TVI interference
To: packet-radio@ucsd.edu

bill@triangle.cs.uofs.edu (Bill Gunshannon) writes:

> How could they have done otherwise?? Cable frequencies start at 2 Mhz and
> go up to almost 1 Ghz according to the published industry standards.
> Most Cable TV starts at 54 Mhz and has at least 38 channels. Let's see,
> 38 * 6 = 228!! That makes it from 54 Mhz to 282 Mhz. That covers 2 ham
> bands (and pretty clos to a third) and dozens of other sevices. Short of
> fixing their leaks, there is no way to avoid interference. At least until
> they get the fiber in. ;-)
>
> bill   KB3YV
>

What happens when DVC (Digital Videon Compression) is introduced next
year and instead of just receiving squiggly lines on 2 or 3 channels
we'll be receiving sqigglies on, let's see 3*10 = 30 channels eventually.

Actually, most cable systems will still reserve channels 2 through 30 for analog (the current system) and 31 on up will be digital. When they all go digital I'll go to DBS or those 27.5-29.5 GHz square dishes I've heard about (CellularVision).

Jim

jim@inqmind.bison.mb.ca
The Inquiring Mind BBS, Winnipeg, Manitoba 204 488-1607

Date: 15 Apr 93 19:32:18 GMT
From: sdd.hp.com!saimiri.primate.wisc.edu!zaphod.mps.ohio-state.edu!uwm.edu!ogicse!news.tek.com!tvnews!thd.tv.tek.com!bill@network.UCSD.EDU
Subject: Cable TVI interference
To: packet-radio@ucsd.edu

In article <VL812B2w165w@inqmind.bison.mb.ca> jim@inqmind.bison.mb.ca (jim jaworski) writes:
>What happens when DVC (Digital Videon Compression) is introduced next
>year and instead of just receiving squiggly lines on 2 or 3 channels
>we'll be receiving sqigglies on, let's see 3*10 = 30 channels eventually.

Since the digital transmission schemes include error correction and concealment, the performance remains about the same down to a very low carrier-to-noise ratio, below which it degrades very quickly. Hence, digitally compressed TV is supposed to be less susceptible to interference than amplitude modulated TV.

--
Bill McFadden   Tektronix, Inc. P.O. Box 500 MS 58-639 Beaverton, OR 97077
bill@tv.tv.tek.com, ...!tektronix!tv.tv.tek.com!bill   Phone: (503) 627-6920
How can I prove I am not crazy to people who are?

Date: Fri, 16 Apr 93 00:01:06 GMT
From: mnemosyne.cs.du.edu!nyx!epwong@uunet.uu.net
Subject: Help! KA9Q/Ethernet
To: packet-radio@ucsd.edu

Dear All,

I am trying to get my standard connection going with KA9Q (PA0GRI113016) and a GVC NIC-2000 ethernet card. I know that my router and modem is working because I am able to ping, finger, and even telnetd with it.

However, after a time, it crashes randomly. Help would be greatly appreciated.

I suspect that there is a hardware conflict in the PC. I am running with a 386SX/33, 2 MB Ram. The Ethernet card is configured for IRQ 5, ports 0x360-0x37F.

Thanks in advance. I know that it's not much to go on, but I don't even know what the questions to ask are, sorry.

Please send mail.

Elliott

Date: Thu, 15 Apr 93 17:11:12 EST
From: vnet.IBM.COM@uunet.uu.net
Subject: Poor Man's Packet Design/Article wanted
To: packet-radio@ucsd.edu

I am looking for a design for or a reference to an article on a design for a Poor Man's Packet TNC.

I would like to construct a Packet TNC as a project.

Any good suggestions would be appreciated...

Thanks,

Wayne Salhany

```
------------------------------------------------------------------------
VE3UGI                                    Internet: salhany@vnet.ibm.com
Toronto, Ontario CANADA
------------------------------------------------------------------------
--... ...-- -.. . ...- . ...-- ..- --. ..
```

Date: Thu, 15 Apr 93 17:15:56 EST
From: vnet.IBM.COM@uunet.uu.net
Subject: Poor Man's Packet Design/Article wanted
To: packet-radio@ucsd.edu

I am looking for a design for or a reference to an article on a design for a Poor Man's Packet TNC.

I would like to construct a Packet TNC as a project.

Any good suggestions would be appreciated...

Thanks,

Wayne Salhany

```
------------------------------------------------------------------------
VE3UGI                                    Internet: salhany@vnet.ibm.com
Toronto, Ontario CANADA
------------------------------------------------------------------------
--... ...-- -.. . ...- . ...-- ..- --. ..
```

Date: Thu, 15 Apr 1993 16:38:48 GMT
From: usc!zaphod.mps.ohio-state.edu!moe.ksu.ksu.edu!hobbes.physics.uiowa.edu!news.iastate.edu!vlsi4!jvp@network.UCSD.EDU
Subject: Time for AX25 version 3 ?
To: packet-radio@ucsd.edu

In <C5HuHB.Bo1@lysator.liu.se> pme@lysator.liu.se (Peter Enderborg) writes:

>I have been hacking AX25 the last few days. I realised that ax25 version 2
>do _NOT_ have sliding window technology.

Yes it does. I think what you mean is that it does not have selective repeat. Instead it uses go-back-N.

```
+----------------------------------------------------------------+
| Jim Van Peursem - Ph.D. Student - Ham Radio -> KE0PH           |
| Department of Electrical Engineering and Computer Engineering |
| Iowa State University - Ames, IA 50011                         |
| internet - jvp@iastate.edu  -or-  jvp@cpre1.ee.iastate.edu    |
+----------------------------------------------------------------+
```

Date: Thu, 15 Apr 1993 12:36:13 GMT
From: swrinde!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
To: packet-radio@ucsd.edu

References <1993Apr14.080031.15737@qualcomm.com>,
<1993Apr14.130727.21299@cunews.carleton.ca>,

<1993Apr14.094112.20377@hemlock.cray.com>
Reply-To : gary@ke4zv.UUCP (Gary Coffman)
Subject : Re: Rich Man's Packet ... : -)

In article <1993Apr14.094112.20377@hemlock.cray.com> andyw@aspen32.cray.com (Andy Warner) writes:

>
>I've toyed with the idea of building a small transverter to
>convert the 28MHz IF to 144, to allow the 1296 & higher Down
>East transverters to be used. I was figuring on something as
>simple as a crystal locked PLL LO feeding a couple of DBM.
>Add a 28MHz filter on rx and a toko helical on tx - maybe
>a single stage of amplification in each direction..

I've used the Hamtronics TV-2 to feed a SSB Electronics 902 transverter. You can certainly build a better converter for less money, but it does work. You're right that the LO is the key to the transverter. A couple of MMICs and an SBL-1 take care of the rest. Getting a clean easy starting LO is harder than it looks with a minimum component design. Fortunately, the SBL-1 really wants a square wave drive, so a packaged oscillator, like those used on SVGA cards, is a good possibility. Anyone know of a cheap source for 101 MHz packaged oscillators?

Gary

```
--
Gary Coffman KE4ZV           |    You make it,     | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems  |    we break it.     | uunet!rsiatl!ke4zv!gary
534 Shannon Way              |    Guaranteed!      | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244      |                     |
```

End of Packet-Radio Digest V93 #103
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